

Title (en)
CONTROL DEVICE IN HYDROSTATIC-MECHANICAL TRANSMITTING MACHINE

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Application
EP 91918923 A 19911105

Priority
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• JP 9101513 W 19911105

Abstract (en)
[origin: EP0558748A1] A control device in a hydrostatic-mechanical transmitting machine constructed such that, to be driven through an input shaft coupled to a power source, a mechanical transmitting section and a hydrostatic transmitting section in which an angle of a discharge flowrate setting swash-plate of at least one of a pump and a motor is variable, are provided, and a differential section for coupling an output shaft to both the mechanical transmitting section and the hydrostatic transmitting section are provided for driving. An object of the invention is to cause the number of revolutions (nE) of the power source to quickly follow a target number of revolutions (NE) in accordance with changes in a throttle position (X). A target motor speed ratio (Em) involving a ratio (em) of the number of revolutions (nm) of the motor in the hydrostatic transmitting section to the number of revolutions (n E) of the power source is set based on the throttle position (X), and a control value (A), a sum of a feedforward value (KEm; where K: feedforward coefficient) being proportional to a target motor speed ratio (Em) and both a proportional element and an integrating element of a deviation (= Em-em) between an actual motor speed ration (em) and a target motor speed ratio (Em), is determined, whereby an angle of the discharge flowrate setting swash-plate is controlled. <IMAGE>

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Citation (search report)
• [A] EP 0312276 A1 19890419 - HONDA MOTOR CO LTD [JP]
• See references of WO 9209829A1

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